RISK MANAGEMENT GUIDE

for Mountain Operations



USARAK

Northern Warfare Training Center

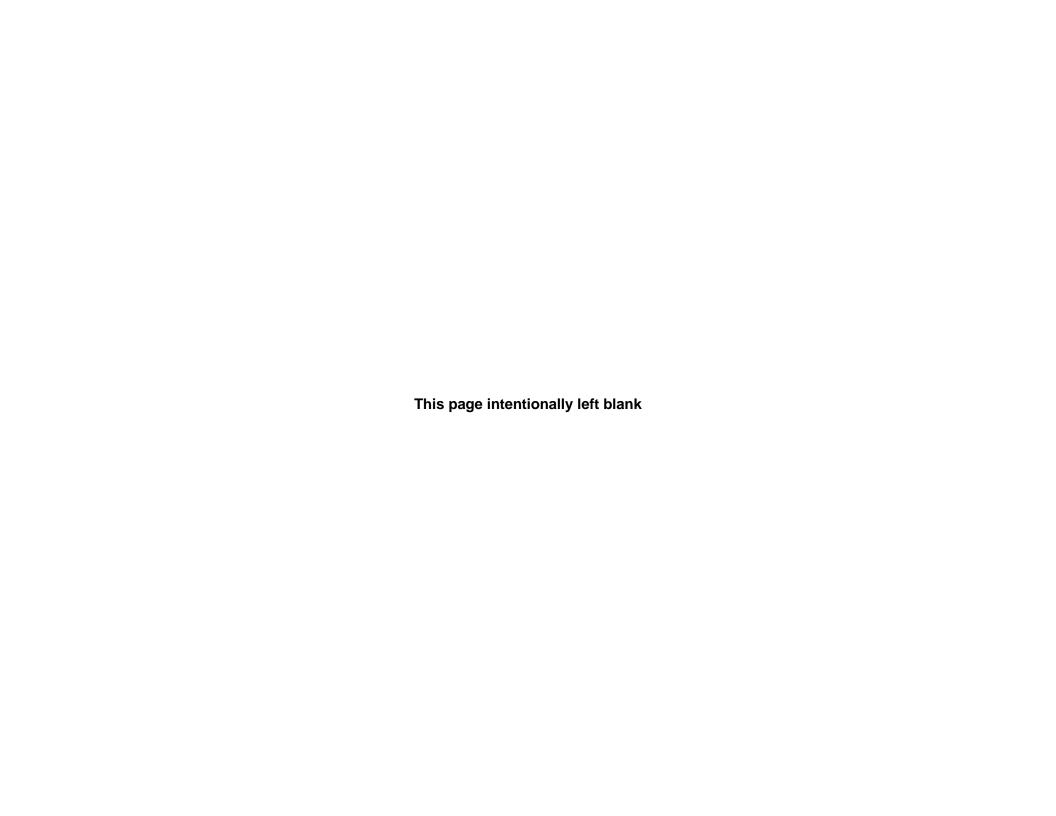


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APVR -WNW

MEMORANDUM FOR RECORD

01 March 2014

SUBJECT: Composite Risk Management (CRM) for Mountain Operations

- 1. Summary. This pamphlet gives leaders at all levels a pocket reference for implementing the Composite Risk Management process in order to develop safe and effective mountain training plans, exercises and operations. FM 5-19, Composite Risk Management, was used to develop this pamphlet.
- 2. Soldiers who attend a USARAK Northern Warfare Training Center (NWTC) course will receive training on the CRM process and integrate CRM into all aspects of training. The lesson plan pertaining to this pamphlet is available on the NWTC website, www.wainwright.army.mil/nwtc/. The pamphlet includes the following:
- a. A brief overview of the CRM process.
- b. NWTC developed matrix for identifying and assessing mountain hazards in order to determine initial risk level.
- c. DA Form 7566, Composite Risk Management Worksheet.
- d. Examples of completed CRM worksheets utilized by NWTC for courses. These worksheets serve as a baseline for certain training activities, but do not serve as a substitute for thorough CRM.
- e. Planning considerations for Cold Weather Operations and Training.
- f. Wind Chill Chart.
- g. Nine Line MEDEVAC checklist.
- h. Blank copies of DA Form 7566 for use during mountain training and operations.
- 3. Applicability. This pamphlet applies to units and activities assigned or attached to USARAK. This pamphlet supersedes all previous versions of the NWTC Risk Management for Mountain Operations.

APVR-WNW

SUBJECT: Composite Risk Management (CRM) for Mountain Operations

- 4. Interim Changes. Interim changes to this pamphlet are not official unless they are authenticated by the director of information management. Users will destroy interim changes on their expiration dates unless sooner superseded or rescinded.
- 5. Suggested improvements. The proponent agency of this pamphlet is USARAK NWTC, Ft. Wainwright, Alaska, www.wainwright.army.mil/nwtc/. Users are invited to send comments and suggested improvements on Department of the Army (DA) Form 2028, Recommended Changes to Publications and Blank Forms, directly to APVR-WNW.

MARK E. ADAMS LTC, FA Commandant

SECTION I

Composite Risk Management for Mountain Training and Operations

Composite Risk Management

Step 1: Identify hazards:

a. METT-TC provides the framework to identify hazards. In a garrison environment or for off-duty activities consider:

- Activity (Mission)
- Disrupters (Enemy)
- Terrain and Weather
- People (Troops)
- Time
- Legal considerations (Civil considerations)

b. You can also use regulations, accident data, risk assessment matrices, AAR's, experience, subject matter experts, etc.

Step 2: Assess the hazards:

- Assess the probability of the event or occurrence.
- Estimate the expected result or severity of an event or occurrence.
- Determine the specified level of risk for a given probability and severity using the standard risk assessment matrix.

Risk Assessment Matrix						
			Probability			
Severity	Frequent	Likely	Occasional	Seldom	Unlikely	
	Α	В	С	D	E	
Catastrophic	Е	Е	Н	Н	М	
Critical	Е	Н	Н	H M	L	
Marginal	Н	M	М	L	L	
Negligible	M	L	L	L	L	
E -Extremely High	H – H	H – High M – Moderate L - Low				

Step 3: Develop Controls:

- a. Effective control measures address WHO, WHAT, WHEN, WHERE and HOW.
- b. Reassess the risk after controls are in place to determine residual risk level.
- c. Make risk decisions Ask yourself what constitutes an acceptable level of risk for the mission or activity?
- d. Involve the appropriate level of command based upon the residual risk level:

Risk I	_evel	Low	Moderate	High	Extremely
					High
Who	can	Company	Battalion	Brigade	Commanding
appro	ve	Commander	Commander	Commander	General
the					
missi	on or				
activi	ty?				

Step 4: Implement Controls:

- a. Ensure controls are converted into clear and simple execution orders.
- b. Controls must be understood by all.

Step 5: Supervise and Evaluate:

- a. Implement and enforce risk controls to standard.
- b. Supervise the process this is also a control measure.
- c. Evaluate and make adjustments as necessary.

NOTE: Record the CRM process on DA Form 7566 available at http://www.apd.army.mil/

Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:			
	Preparatory Time			
Guidance	Optimum	Adequate	Minimal	
FRAGO	3	4	5	
OPORD	2	3	4	
OPLAN/MOI/POI	1	2	3	

Mission (Command		SC	ORE:		
		Maneuver Element Size			
Leadership with mountain experience	Battalion	Company	Platoon	Squad	
None	7	6	5	4	
Basic Level	6	5	4	3	
Advanced	5	4	3	2	

Troops (Soldier Endurance)	SCORE:		
Environmental	Fitness Level		
Preparation	Untrained	Trained	
Non-acclimated	6	5	4
Partially Acclimated	5	4	3
Acclimated	4	3	2

Mission a	nd Troops	SCORE:					
Tools		Soldier Experience					
Task	Level 1	Level 2	Level 3	No mountain training/experience			
Complex	5	4	3	6			
Routine	4	3	2	5			
Simple	3	2	1	4			

Weather	SCORE:						
Temperature (degrees F		Exposure Duration					
with wind chill)	< 8 hours	8-24 hours	24-72 hours	Over 72 hours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain		SCORE:		
	Dismounted Mobility Classification			
Environmental Hazards	Class 1-2	Class 3-4	Class 5	
None Present	2	4	5	
Present-avoidable	3	5	6	
Unavoidable	5	6	7	

Troops (Rest and Maintenance)		SCORE:		
		Equipment Statu	S	
Personnel Rest	Optimum	Adequate	Minimal	
<4 hours (in 24 hours)	3	4	5	
6 hours (in 24 hours)	2	3	4	
>8 hours (in 24 hours)	1	2	3	

Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	1,2	3,4	5,6	7,8,9			
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk			
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40			

			For us	COMPOSITE RISK MANA e of this form, see FM 5-19; t					
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END		3. DATE PREPARED (YY	YYMMDD)
4. PREPARED B	Υ				•				
a. LAST NAME			b. RANK		c. POSITION	I			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONT	ROLS	9. RESIDUAL RISK LEVEL	10. HOW TO		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through						-		
LOW		ROLS ARE IMF	PLEMENTE	D (Check one) HIGH	EXTR	EMELY HIGH			
	SION AUTHORITY								
a. LAST NAME		b. RANK		c. DUTY POSITION			d. SIGNATI	JRE	

DA Form 7566, APR 2005

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TEMS 5 THROUGH 12		 		1	Γ	1	40 1440 001750
s. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
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DA Form 7566, APR 2005

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SECTION II

Risk Management Examples for Select Mountain Training Events

This section contains example CRM worksheets for some of the mountain training conducted during courses at the Northern Warfare Training Center. They are not all inclusive and do not negate the need to apply the CRM process to training or operations in your unit.

		For	COMPOSITE RISK MANAGER use of this form, see FM 5-19; the p				
1. MSN/TAS	K: General mountainee		· · · · · · · · · · · · · · · · · · ·	2b. DT	<u> </u>	3. DATE PREPARE	D (YYYYMMDD)
4. PREPARI	D BY						
a. LAST NAI			b. RANK	c. POSITIO	ON		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	Head injury from rock fall	М	Wear helmet for all outdoor events during BMC Yell "ROCK" if rock fall is spotted to warn others Route selection	L	Follow established safety procedures and guidelines	All enforce this standard	
	Injuries to hand and fingers	М	Remove watches, rings, jewelry for all outdoor events during BMC	L	Follow established safety procedures and guidelines	All enforce this standard	
	Dehydration	M	Carry two quarts of water at all times	L	Follow established safety procedures and guidelines	All enforce this standard	
	Lack of situational awareness creates dangerous situation	М	Attach safety to anchor when closer than a 'body's length' from the edge of a hazard Pay attention to objective and subjective hazards; do not let something surprise you	L	Follow established safety procedures and guidelines	All enforce this standard	
			Just because a task is routine DO NOT GET COMPLACENT – DO THE RIGHT THING EVERY TIME Speak up; if someone is doing something that does not look right				

		th	r feel right say something even if ney are 'more experienced' than ou			
13. OVERALI	RISK LEVEL AFTER	CONTROLS	ARE IMPLEMENTED (Check one))		
LC	DW MC	DDERATE	HIGH	EXTRE	MELY HIGH	
14. RISK DEC	CISION AUTHORITY					
a. LAST NAMI	E	b. RANK	c. DUTY POSITION		d. SIGNATURE	

		For		MPOSITE RISK MANAGEN his form, see FM 5-19; the pr				
1. MSN/TASI techniques.	C: Demonstrate mount	tain walkin	g	2a. DTG BEGIN	2b. DT	G END	3. DATE PREPARED) (YYYYMMDD)
4. PREPARE	D BY			1	I			
a. LAST NAM	1E		b. RAN	ANK c. POSITION				
5. SUBTASK	JBTASK 6. HAZARDS RISK LEVE		8. CONTROLS		9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Movement up hill	Strains, sprains, injury from slip or falls	М	mounta	strate and practice proper in walking technique early novement	L	Instructor present 699-9013: Demonstrate mountain walking techniques	Squad instructor	
	Injury from rock fall		group r close to above/l 'ROCK	nal awareness by all nembers; Group stays ogether, avoid climbing below another Soldier; Yell to warn others of an ate hazard		Instructor leads students; buddy squads stay together	Squad instructor	
	Dehydration		water; a and boi movem	ninimum of 2 quarts of ability to filter water or melt I snow for water for longer ents; get water when it is le not when you are out of		Discuss water resupply considerations during class; walk one hour, five minute water break	Squad instructor	
	Ice axe injuries		Carry id	ce axe in proper position ain		Part of class; Instructors enforce proper procedure during the movement	Squad instructor	

Movement downhill	Slips, Falls, Leg injuries, rock fall	M	Demonstrate and practice proper descent techniques. Slow descent rate.	L	Instructor leads descent	Squad instructor	
Movement	Weather	?	Check weather forecast prior to movement; adjust clothing/equipment requirements as required	?	OIC/NCOIC provide weather report; modify route/route length as required	OIC/NCOIC	
13. OVERAL	L RISK LEVEL AFTER	CONTROL	S ARE IMPLEMENTED (Check one,)			
	DW MC	DERATE	HIGH		EXTREMELY HIGI	Н	
14. RISK DE	CISION AUTHORITY						
a. LAST NAM	E	b. RANK	c. DUTY POSITION		d. SIGNA	TURE	

		For		MPOSITE RISK MANAGEN his form, see FM 5-19; the pr			C.		
1. MSN/TASK techniques	: Demonstrate basic	rock climb	ing	2a. DTG BEGIN	2b. DT	G END		3. DATE PREPARED	(YYYYMMDD)
4. PREPAREI	O BY						<u> </u>		
a. LAST NAM			b. RAN	IK	c. POSITIO	DN			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	NTROLS	9. RESIDU AL RISK LEVEL	10. HOW TO		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Bouldering	Falls	M	Wear hastened Remove to climic Clean I Test has for sour Use specific demonstration of the control of the contr	ve watches and rings prior bing boot soles prior to climbing andhold/foot placements and rock botter – instructor strates proper spotting que climb above effective of spotter (about head	L	Instructor pres 699-9018: Demonstrate rock climbing techniques	basic	Squad instructor	
	OW M	R CONTROI ODERATE	_S ARE	IMPLEMENTED (Check one	[EXTREME	ELY HIG	Н	
	CISION AUTHORITY		г			r			
a. LAST NAM	E	b. RANK		c. DUTY POSITION		d	I. SIGNA	ATURE	

		For		MPOSITE RISK MANAGEN iis form, see FM 5-19; the pr	_	-			
1. MSN/TASK	: Demonstrate a basi	ic top bela	у	2a. DTG BEGIN	2b. DT	G END	3	3. DATE PREPARED	(YYYYMMDD)
4. PREPAREI	O BY			1					
a. LAST NAM	E		b. RAN	K	c. POSITIO	N			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	TROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Belay	Incorrect procedure results in a fall	M	Use process of the situ. Use process of the situ. Use process of the situ. Squad is and rev	AW 699-9020 oper belay technique for ation/terrain oper commands to nicate with the climber instructor inspects belayer iews procedures prior to climbing	L	Instructor presen 699-9020: Demonstrate a bit top belay Rehearse procedures on C 1 terrain before using on Class 3 terrain	asic lass	OIC/NCOIC Squad instructors Medics	
Climb	Failure to tie-in correctly results in a fall	М	Climb In Use process communication Squad in prior to	AW 699-9020 oper commands to nicate with belayer instructor inspects climber climbing		Same as above		Squad instructors	
LC	DW MC	CONTROL DERATE	S ARE I	MPLEMENTED (Check one) HIGH		EXTREMELY	HIGH	1	
	CISION AUTHORITY	L DAN"	1	DUTY DOO'T O'		Ι	<u> </u>	TUDE	
a. LAST NAM	E	b. RANK		c. DUTY POSITION		d. SI	GNA	TURE	

		For		MPOSITE RISK MANAGEN is form, see FM 5-19; the pr				
1. MSN/TASI	: Install a fixed rope			2a. DTG BEGIN	2b. DTG END		3. DATE PREPARED	(YYYYMMDD)
4. PREPARE	D BY			L				
a. LAST NAM			b. RAN	K	c. POSITIO	N		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	TROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Install fixed rope	Fall during installation	М	For train Class 3 exposured installing class terms tall at three are a bomb constituted Squad installing squad installing squad installing squad installing squad in moves	a primary and independent of anchor for each primary and independent of anchor for each prior anchor anchor anchor anchor selects route prior to grixed rope.	L	Instructor presents 699-9027: Install a fixed rope Rehearse procedures on Class 3 terrain prior to installation/moveme nt on 4 th /5 th class terrain		
Move on a fixed rope	Fall due to incorrect movement procedures	M	Move IA	NW 699-9027 Instructor inspects climber movement on a fixed rope	L	Rehearse procedures on Class 3 terrain prior to installation/moveme nt on 4 th /5 th class	Squad instructor	

						terrain			
Move on a fixed rope with intermediate anchors	Fall due to incorrect movement procedures	M		instructor inspects climber o movement on a fixed rope	L	Rehearse procedures 3 terrain pr installation/ nt on 4 th /5 th terrain	ior to moveme	Squad instructor	
Recover fixed rope	Fall during recovery	M	Squad	ish a top belay for last man instructor inspects belayer mber prior to movement	L	Rehearse procedures 3 terrain pr installation/ nt on 4 th /5 th terrain	ior to moveme	Squad instructor	
13. OVERAL	L RISK LEVEL AFTER	R CONTROL	S ARE	IMPLEMENTED (Check one	·)				
LC	OW M	ODERATE		HIGH		EXTRE	MELY HIGH	1	
14. RISK DE	CISION AUTHORITY								
a. LAST NAM	E	b. RANK		c. DUTY POSITION			d. SIGNA	TURE	

		For	COMPOSITE RISK MANA	_	_		
1. MSN/TAS	K : Rappel		2a. DTG BEGIN	2b. DT	G END	3. DATE PREPARED	O (YYYYMMDD)
4. PREPARE	ED BY						
a. LAST NA	ME		b. RANK	c. POSITIO	ON		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDU AL RISK LEVEL	10. HOW TO	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Install a rappel	Severe Falls	M	Install IAW 699-9029 All personnel that are working within a 'bodies length' from the edge MUST use safety arm to bombproof anchor Terrain selection by squad instructor Rehearsals for installation and movement techniques on easy low consequence ground.	a	Instructor presents 699-9029: Rappel Squad instructor inspects installation prior to use.	Squad instructor	
Hasty Rappel	Falls	М	Rappel IAW 699-9029 Instruction on capabilities and limitations of this technique – u on moderate terrain only	L	Instructor presents 699-9029: Rappel Squad instructors inspects Soldier prior to rappel	Squad instructor	
Body Rappel	Severe Falls	М	Rappel IAW 699-9029 Instruction on capabilities and limitations of this technique – never use on overhanging termonly	L	Instructor presents 699-9029: Rappel Squad instructors inspects Soldier prior to rappel	Squad instructor	

Carabiner Rappel	Severe Falls	М	Rappel IAW 699-9029	L	Instructor p 699-9029: I		Squad instructor	
			Instruction on capabilities and limitations of this technique		Squad instr	uctors		
			·		inspects Sc	oldier		
			Use of Fireman's belay for		prior to rapp	pel		
			inexperienced personnel.					
			Use of Autoblock to control descent					
Retrieve rappel	Severe Falls	М	Retrieve IAW 699-9029		Instructor p 699-9029: I			
''			Select one bombproof anchor and			• •		
			leave minimum gear behind		Squad instr			
			Clear all knots an daubled rang		inspects Sc			
			Clear all knots on doubled rope		prior to rap	pei		
			Check and re-check system prior to rappelling					
			Warn others of falling rope prior					
			as rope is pulled					
			Nover to use webbing that has					
			Never re-use webbing that has been burned after pulling the rope					
13. OVERAL	L RISK LEVEL AFTER	CONTROI	LS ARE IMPLEMENTED (Check one)		l		1	<u> </u>
L	OW MO	DDERATE	HIGH		EXTREM	MELY HIGI	Н	
	CISION AUTHORITY							
a. LAST NAM	IE	b. RANK	c. DUTY POSITION			d. SIGNA	TURE	

		For		MPOSITE RISK MANAGEN his form, see FM 5-19; the pr				
1. MSN/TASK	: Install a one rope b		430 01 11	2a. DTG BEGIN	2b. DT	<u> </u>	3. DATE PREPARED	(YYYYMMDD)
4. PREPARE	D BY							
a. LAST NAME			b. RAN	K	c. POSITIO	DN		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	TROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Install a one rope bridge	Severe Falls	M	Select and Discuss capabil ropes. I platform anchors within a edge M bombpil Install a back-up installar three and a bombpil selections.	AW 699-9031 a good crossing site: a distance span ities and limitations of Discuss loading/unloading ns. Look for suitable is for the installation. connel that are working to 'bodies length' from the IUST use safety arm to a coof anchor a back-up dynamic rope. a primary and independent to anchor for each tion. Two equalized bolts, rtificial equalized points, or a proof natural anchor utes one anchor	L	Instructor presents 699-9031: Install a one rope bridge Squad instructor inspects and rides installation prior to use by students	Squad instructor	
Cross a one rope bridge	Severe Falls	М	1	AW 699-9031	L	Instructor presents 699-9031: Install a one rope bridge Squad instructor	Squad instructor	

				inspects students prior to movement	
Recover a	Severe Fall	М	Use techniques appropriate to the	Instructor presents	
one rope			terrain to protect the last man	699-9031: Install a	
bridge			during movement (i.e. rappels or belays)	one rope bridge	
			, ,	Squad instructor	
				inspects students	
				prior to movement	
13. OVERALI	L RISK LEVEL AFTER	CONTROL	S ARE IMPLEMENTED (Check one)		
LC	DW MC	DDERATE	HIGH	EXTREMELY HIGH	f
14. RISK DEC	CISION AUTHORITY				
a. LAST NAM	E	b. RANK	c. DUTY POSITION	d. SIGNAT	ΓURE

		For		MPOSITE RISK MANAGEN nis form, see FM 5-19; the pr	_	_		
	≺ : Demonstrate basionsing a top rope		bing 2a. DTG BEGIN		2b. DTG END		3. DATE PREPARED (YYYYMMDD)	
4. PREPARE	D BY					l		
a. LAST NAM	ΛE		b. RAN	lK	c. POSITIO	DN		
5. SUBTASK	6. HAZARDS	6. HAZARDS 7. INITIAL RISK LEVEL 8. CC		ITROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Prepare to top rope climb	Failure to prepare correctly results in fall	M	Climbe other b Harnes Both perope to	Prepare IAW 699-9021 Climber and belayer inspect each other before climbing Harness tied to standard Both personnel tied into climbing rope to standard Watches and rings removed		Instructor presents 699-9021: Demonstrate basic rock climbing technique using a top rope Squad instructor inspects belayer and climber after belayer signals 'BELAY ON'		
Conduct a top rope climb	Severe Fall	M	Climbe comma during Belaye proper	r and belayer use standard ands to communicate the exercise r manages the rope y r does not out climb the r (create slack)	L	Squad instructor monitors belayer and climber throughout the exercise	Squad instructor	
Install a top rope	Severe Fall	Н	Install Rig top	top rope IAW 699-9024:	L	One primary instructor installs top rope. Training and Standards civilian	Squad instructor NCOIC/OIC	

	installa artificia bombp	up anchor for each ation. Two bolts, three al equalized points, or a proof natural anchor tutes one anchor	inspects installa prior to use.	ation Training and Standards				
Additional space for entries in Items 5 through 11 is provided on Page 2.								
13. OVERALL RISH	K LEVEL AFTER CONTROLS ARE	IMPLEMENTED (Check one)						
LOW	MODERATE	HIGH	EXTREMEL	Y HIGH				
14. RISK DECISIO	N AUTHORITY							
a. LAST NAME	b. RANK	c. DUTY POSITION	d. S	SIGNATURE	_			

		Foi		MPOSITE RISK MANAGEN nis form, see FM 5-19; the pr				
1. MSN/TASI overhanging	K: Ascend a fixed ro			· · · · · · · · · · · · · · · · · · ·		G END	3. DATE PREPARED (YYYYMMDD)	
4. PREPARE					L	l.		
a. LAST NAM	ИΕ		b. RAN	lK	c. POSITIO	N		
5. SUBTASK	6. HAZARDS	6. HAZARDS 7. INITIAL RISK LEVEL 8. CO		8. CONTROLS		10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Ascend the rope	Falls	M	Rig for ascent IAW 699-9035 Use a minimum of three wraps on all prusiks Do not lock upper and lower friction knots together during ascent. Tie in short every 10-15 feet (dynamic rope only)		LEVEL L	Instructor presents 699-9035: Ascend a fixed rope on a vertical or overhanging obstacle Instructor inspects all students prior to movement	Squad instructor	
	Rock fall	M	Wear h	• • •	L	Instructor responsibility prior to use of installation	Squad instructor	
Install fixed rope	Falls	M	Install IAW 699-9028: Install a fixed rope with intermediate anchors Install a primary and independent back-up anchor for each installation. Two bolts, three artificial equalized points, or a bombproof natural anchor constitutes one anchor		L	One primary instructor installs top rope. Training and Standards civilian inspects installation prior to use.	Squad instructor NCOIC/OIC Training and Standards	

13. OVERALL RISK LEVEL AFTE	13. O <u>VER</u> ALL RISK LEVEL <u>AF</u> TER CONTROLS ARE IMPLEMENTED <i>(Check one)</i>										
LOW	ODERATE	HIGH	EXTREMELY HIGH								
14. RISK DECISION AUTHORITY	14. RISK DECISION AUTHORITY										
a. LAST NAME	b. RANK	c. DUTY POSITION	d. SIGNATURE								

		For		OMPOSITE RISK MANAGEI his form, see FM 5-19; the p					
1. MSN/TASK	: Install a suspensio	n traverse		2a. DTG BEGIN	2b. DT	G END	3. DATE PREPARED	(YYYYMMDD)	
4. PREPAREI	D BY								
	a. LAST NAME			ık	c. POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. COI	NTROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?	
Install a suspension traverse	Installation failure, Falls, Damaged equipment	M		stallation IAW Student ut, 699-9032	L	Instructor presents 699-9032: Install a suspension traverse Squad instructor inspect and ride installation prior to use by students	Squad Instructor		
Move personnel or equipment on a suspension traverse	Installation failure, Falls, Damaged equipment	M	Hando	nstallation IAW Student ut, 699-9032	L	Squad instructor inspects students and/or equipment prior to movement on the installation	Squad instructor		
	ce for entries in Items								
		DERATE	-S ARE	IMPLEMENTED (Check one	<i>=)</i> 	EXTREMELY H	GH		
	CISION AUTHORITY						_		
a. LAST NAM	E	b. RANK		c. DUTY POSITION		d. SIGN	IATURE		

		For		MPOSITE RISK MANAGEN his form, see FM 5-19; the pi				
1. MSN/TASK mountain ter	∷ Evacuate a casualty rain	y in low ar	ngle	2a. DTG BEGIN	2b. DT	G END	3. DATE PREPARED	(YYYYMMDD)
4. PREPAREI	O BY				1			
a. LAST NAM	E		b. RAN	IK	c. POSITIO	DN		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	ITROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Raise a litter patient on low angle terrain (3 rd class)	Falls, loss of control of patient	M	One No litter be manag Use du simulat Install a back-u installa artificia bombp constitu	Raise patient IAW 699-9037: Evacuate a casualty in low angle mountain terrain One NCOIC, Belay established, litter bearers mange p/t, belayer manages rope to protect p/t Use dummy or rucksacks to simulate patient. Install a primary and independent back-up anchor for each installation. Two bolts, three artificial equalized points, or a bombproof natural anchor		Instructor presents 699-9037 One person in charge of the exercise Situational awareness by all participants Instructor inspect rigging prior to movement	Squad instructor Medics inspect casualty rigging prior to movement	
Lower a litter patient on low angle terrain (3 rd class)	Fall, loss of control of patient	M	Evacua mounta One No litter be manag	patient IAW 699-9037: ate a casualty in low angle ain terrain COIC, Belay established, earers mange p/t, belayer es rope to protect p/t ammy or rucksacks to the patient.	L	Instructor presents 699-9037 One person in charge of the exercise Situational awareness by all participants	Squad instructor Medics inspect casualty rigging prior to movement	

		back-u installa artificia bombp	a primary and independent up anchor for each ation. Two bolts, three al equalized points, or a proof natural anchor utes one anchor	Instructor ir rigging prio movement	or to		
Additional spa	ce for entries in Items	5 through 11 is pro	vided on Page 2.				
13. OVERALI	RISK LEVEL AFTER	CONTROLS ARE	IMPLEMENTED (Check one)				
LC	DW M	ODERATE	HIGH	EXTRE	MELY HIGH		
14. RISK DECISION AUTHORITY							
a. LAST NAM	E	b. RANK	c. DUTY POSITION		d. SIGNATURE	·	

		For		MPOSITE RISK MANAGEN nis form, see FM 5-19; the pr				
1. MSN/TASI mountain ter	≺ : Evacuate a casua rrain	lty high ang	le	e 2a. DTG BEGIN		G END	3. DATE PREPARED	(YYYYMMDD)
4. PREPARE	D BY			1				
a. LAST NAME			b. RAN	K	c. POSITIO	N		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL 8. CON		8. CONTROLS		10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Raise a casualty on high angle terrain	Dropped patient, rock fall	M	Install a back-u installa artificia bombp constitu	Raise casualty IAW 699-9040 Evacuate a casualty in high angle mountain terrain Install a primary and independent back-up anchor for each installation. Two bolts, three artificial equalized points, or a bombproof natural anchor constitutes one anchor		Instructor presents 699-9040 One person in charge of the exercise Situational awareness by all participants Medic inspects casualty rigging Squad instructor inspects systems prior to use	OIC/NCOIC Medic NCOIC Medics Squad instructor	
Lower a casualty on high angle terrain	Dropped patient, rock fall	M	Install a back-u installa artificia bombp	casualty IAW 699-9040 ate a casualty in high angle ain terrain a primary and independent p anchor for each tion. Two bolts, three I equalized points, or a roof natural anchor utes one anchor	L	Instructor presents 699-9040 One person in charge of the exercise Situational awareness by all participants	OIC/NCOIC Medic NCOIC Medics Squad instructor	

				Medic inspects	S	
				casualty riggin	ng	
				Squad instruct	tor	
				inspects system	ms	
				prior to use		
Additional spa	ce for entries in Items	5 through 11 is pro	vided on Page 2.			
13. OVERALI	L RISK LEVEL AFTER	CONTROLS ARE	IMPLEMENTED (Check one)			
	ow Mo	DDERATE	HIGH	EXTREME		
		JUERATE	півп		LT HIGH	
14. RISK DEC	CISION AUTHORITY					
a. LAST NAM	E	b. RANK	c. DUTY POSITION	d.	SIGNATURE	

		For		MPOSITE RISK MANAGEN is form, see FM 5-19; the pr	_	-		
1. MSN/TAS snow and ic	K : Move on gentle, mo	oderate an	d steep	2a. DTG BEGIN	2b. DTG END		3. DATE PREPARED (YYYYMMDD)	
4. PREPARE			T					
a. LAST NAME			b. RANI	<	c. POSITIO	DN		
5. SUBTASK	6. HAZARDS 7. INITIAL RISK LEVEL		8. CON	TROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Move on gentle to moderate slopes	Injuries from slips and falls	M	Begin training in areas with safe run-outs and low consequences Train this sub-task in conjunction with self-arrest Crampons worn as conditions require (glacial ice, alpine ice, water ice)		L	Squad instructor present 699-9034: Move on gentle, moderate and steep snow and ice Squad instructor select terrain	Squad instructor	
Self-Arrest	Unable to arrest the fall; sprains, strains etc.	M	Do not ukeep fer in actual prevent broken Underst limitatio conduct	Always train in areas with safe run-outs/low consequences Do not use crampons in training; keep feet up if crampons are worn in actual self-arrest situation to prevent a cart wheeling fall and/or broken leg Understand the capabilities and limitations of self-arrest – do not conduct on bare ice, above crevasses etc.		Squad instructor present 699-9034 Squad instructor controls movement	Squad instructor	

Descend gentle to moderate	Injuries from slips and falls	M	Descend slowly and in control	L	Squad instructor present 699-9034		
snow slopes			N. d. i. I. I. i. DMG		 		
Glissade			Not authorized during BMC		For instructor training only	Squad instructor	
			Remove crampons before				
			glissading		Senior personnel select area for		
			Glissade only where there is a safe run-out		training		
					Squad instructor		
			Complete self-arrest training prior		controls movement		
			to any glissading				
Use crampons	Injury from slips and falls	M	Use crampons and ice axe IAW 699-9034	L	Squad instructor present 699-9034	Squad instructor	
and ice axe					Cauad instructor		
					Squad instructor controls movement		
					Controls movement		
Additional spa	ce for entries in Items	5 through 1	1 is provided on Page 2.				
13. OVERAL	L RISK LEVEL AFTER	CONTROL	S ARE IMPLEMENTED (Check one)				
LOW MODERATE			HIGH		EXTREMELY HIGH		
14. RISK DE	CISION AUTHORITY		,				
a. LAST NAME b.		b. RANK	c. DUTY POSITION		d. SIGNATURE		

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.												
1. MSN/TASK : Cross a mountain stream						G END	3. DATE PREPARED (YYYYMMDD)					
4. PREPARE	D BY											
a. LAST NAME			b. RANK		c. POSITION							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CON	TROLS	9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?				
Preparation	Drowning	H	Trouse Shirts u Pockets LBV un Rucks straps u Boots v fastene Train a swimm jettison feet doo use arn water a moving	Il on procedures for ing in a swift stream – equipment, on your back, wn stream and together, ns to keep head above nd steer towards shore with the current GET OUT E WATER AS FAST AS	M	Senior instructor present 699-9033; serves as site NCOIC Student to instructor ratio is no more than 6:1 Squad instructor inspects all students after preparation Safety line installed down stream Two strong swimmers with PFDs and throw bags positioned down stream Upstream look-out stationed with radio to alert NCOIC to dangerous debris All students and instructors wear						

					PFDs		
Individual crossing	Drowning	H	Maximum water depth at crossing site is below knee level	M	NCOIC controls movement – one	OIC/NCOIC	
3			Consider flow rate with crossing		student at a time	Squad instructors	
			depth			Medics	
Team Crossing	Drowning	Н	Maximum water depth at crossing site is no more than mid- thigh	М	NCOIC controls	OIC/NCOIC	
Orossing			deep		team at a time	Squad instructors	
			Consider flow rate with crossing depth			Medics	
Hand-line crossing	Drowning	Н	Maximum water depth at crossing site is no more than waist deep	M	NCOIC controls movement - one	OIC/NCOIC	
					student at a time	Squad instructors	
						Medics	
	Hypothermia	Н	Change of clothing and/or warm shelter available at completion of training	М	Heated ambulance on site for duration of exercise	Medic NCOIC	
			1 is provided on Page 2.				
13. O <u>VER</u> ALI	L RISK LEVE <u>L AF</u> TEF	R CONTROL	.S ARE IMPLEMENTE <u>D (Check one</u> ,)			
		ODERATE	HIGH		EXTREMELY HIGH	Н	
	CISION AUTHORITY						
a. LAST NAM	E	b. RANK	c. DUTY POSITION		d. SIGNA	TURE	

		For		MPOSITE RISK MANAGEN				
1. MSN/TASI team	K : Move on glaciated t			· · · · · · · · · · · · · · · · · · ·		G END	3. DATE PREPARED	(YYYYMMDD)
4. PREPARE	D BY							
a. LAST NAM			b. RAN	К	c. POSITIO	DN		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	INITIAL RISK 8. CONTROLS		9. RESIDU AL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Movement	Crevasse falls	Н	Rope to by an in Begin in Belay in Keep rotimes Cross of Use ecomoving	AW 699-9036: Move on ed terrain as a rope team eam movement controlled estructor in a known safe area en/out of known safe areas expe reasonably tight at all exevasses at right angles thelon technique when parallel to crevasses ce mills (moulins)	RESIDU 10. HOW TO AL RISK IMPLEMENT			
Crevasse rescue	Injury from long falls	Н	Select a out or r narrow for train	a crevasse that bottoms neck's down to a point too for a person to fit through	М	Squad instructors work in buddy rope teams to conduct training – one instructor remains top side		

		equal	B equalized ice screws OR 3 lized pickets OR 2 deaman ors for rescue systems						
Additional spa	ce for entries in Items	5 through 11 is pro	ovided on Page 2.						
13. OVERALI	RISK LEVEL AFTER	CONTROLS ARE	IMPLEMENTED (Check one)						
	DW MC	DDERATE	HIGH	EXTREMEL	Y HIGH				
14. RISK DEC	14. RISK DECISION AUTHORITY								
a. LAST NAM	E	b. RANK	c. DUTY POSITION	d. S	SIGNATURE				

Appendix A: Planning Considerations for Mountain Training and Operations

	Class 1 and 2 Terrain
Area of Consideration	Special Requirements and Recommended Actions
Available Personal Clothing and Equipment	 Refer to Appendix B: Planning Considerations for Cold Weather Training Operations UV protection for skin and eyes
Training	 Knowledge of cold weather environmental hazards Knowledge of cold weather clothing capabilities and limitations Skill to use cold weather clothing and equipment to provide protection from the elements Skill to prevent, recognize and treat cold weather injuries Skills to prevent, recognize and treat altitude illness Knowledge of communication capabilities and limitations Knowledge of mountain bivouac techniques Knowledge of weapons employment in mountain terrain direct and indirect Physical conditioning MUST be a priority prior to mountain operations Basic Mountaineering Training recommended (Level 1 Military Mountaineering IAW FM 3-97.6 Mountain Operations, and FM 3-97.61 Military Mountaineering)
Food and Water	 MREs or MCWs as weather dictates (4,500 – 6,000 calories per day) 3.5-5 quarts of water per day
Shelter and Heat	Mission, terrain and weather dependent, consider: Patrol Bag GORE-TEX® bivouac cover sleeping mat poncho poncho poncho liner (optional)
Special Equipment	Water filter (Recommend: First Need Portable Water Filter) SKEDCO or UT2000 for CASEVAC
Additional Mission Considerations and Limitations	 Decentralized operations preferred Vehicles and mechanized forces restricted to roads/trails Consider air assets available and effects of terrain weather Consider fire support capabilities and limitations – organic fire support assets may be the only means available Consider communications capabilities and limitations and how this effects mission – are additional assets available from higher headquarters
	Consider medical treatment and evacuation plan

Appendix A: Planning Considerations for Mountain Training and Operations

	Class 3-5 Terrain
Area of Consideration	Special Requirements and Recommended Actions
Available Personal Clothing and Equipment	 Refer to Appendix B: Planning Considerations for Cold Weather Training Operations UV protection for skin and eyes
Training	 Physical conditioning MUST be a priority prior to mountain operations Basic Mountaineering Training highly recommended (Level 1 Military Mountaineering IAW FM 3-97.6 Mountain Operations, and FM 3-97.61 Military Mountaineering) Advanced Mountain Training highly recommended (Level 2/3 Military Mountaineering IAW FM 3-97.61) for at least one member of each company
Food and Water	 MREs or MCWs as weather dictates (4,500 – 6,000 calories per day) 3.5-5 quarts of water per day
Shelter and Heat	Mission, terrain and weather dependent, consider: Patrol Bag GORE-TEX® bivouac cover sleeping mat poncho poncho liner (optional)
Special Equipment	 Water filter (Recommend: First Need Portable Water Filter) SKEDCO or UT2000 for CASEVAC Per squad: 1 static rope and 1 dynamic rope Per individual: 1 seat harness (30' piece of 1 inch tubular nylon webbing); 1 each 10' piece of webbing; 1 each 6' and 12' piece of 7mm cord; 3-4 oval carabiners; 1 pear shaped locking carabiner
Additional Mission Considerations and Limitations	 Decentralized operations preferred – company sized or smaller should be the norm Vehicles and mechanized forces restricted to roads/trails Consider air assets available and effects of terrain weather Consider fire support capabilities and limitations – organic fire support assets may be the only means available Consider communications capabilities and limitations and how this effects mission – are additional assets available from higher headquarters Consider medical treatment and evacuation plan

Area of Consideration	Special Requiren						
	Clothing Layer:	ECWCS Generation II	ECWCS Generation III				
	Base Layer	 Lightweight polypropylene top and bottom and/or Mid-weight polypropylene top and bottom 	 Lightweight cold weather undershirt and drawers and/or Mid-weight cold weather shirt/drawers 				
Applied to Decreased Obstition	Insulating Layer	Shirt, cold weather, black fleece and/or Liner, cold weather, coat	Green fleece jacket				
Available Personal Clothing and Equipment	Outer Shell	Generation II GORE-TEX® jacket and Generation II GORE-TEX® trousers	 Wind cold weather jacket (Wind Shirt) Extreme cold/wet weather jacket (Hard Shell) Extreme cold/wet weather trousers (Hard Shell) 				
	Other: Suspenders Issued Wool Socks w/ synthetic liner sock Temperate Boots; cold weather boots recommended (e.g. Belleville 795, Danner Ft. Lewis 400g Tan Military Boots) Balaclava and neck gaiter Issued GORE-TEX® gloves with Knife Arctic necklace (lighter and chaparound neck)						
Training	KnowledgSkill to useSkill to pre	e of cold weather environmental hazards e of cold weather clothing capabilities and limitation e cold weather clothing and equipment to provide percent, recognize and treat cold weather injuries equired for all personnel					
Food and Water	MREs 1 hot mea	I daily as mission dictates ts of water per day					
Shelter and Heat	 Patrol Bag GORE-TEX® bivouac cover sleeping mat poncho poncho liner (optional) 						
Additional Control Measures	water re-supply plan sanitation plan						

	Ten	nperature Zone 2: 19º to -4º F Dr	ry Cold		
Area of Consideration	Special Requirem	ents and Recommended Actions			
	Clothing Layer:	ECWCS Generation II	ECWCS Generation III		
	Base Layer	 Polypropylene undershirt and drawers Drawers cold weather, polyester, brown lightweight undershirt and drawers 	 Lightweight cold weather undershirt and drawers Mid-weight cold weather shirt/drawers 		
	Insulating Layer	 Shirt and overalls, cold weather, black fleece and/or Liner, cold weather, coat and trousers 	Green fleece jacket		
Available Personal Clothing and Equipment	Outer Shell	Generation II GORE-TEX® jacket and Generation II GORE-TEX® trousers	 Wind cold weather jacket (Wind Shirt) Extreme cold/wet weather jacket (Hard Shell) Extreme cold/wet weather trousers (Hard Shell) Extreme cold weather parka (Puffy Jacket) 		
	 Cold Weat 400g Tan 	ol Socks w/ synthetic liner sock her Boots (e.g. Belleville 795, Danner Ft. Lewis Military Boots) and neck gaiter	 Issued GORE-TEX® gloves with liners Trigger Finger Mittens w/ extra TF liners Knife Arctic necklace (lighter and chap-stick worn around neck) Ski goggles 		
Training	CWIC requ	uired for all personnel			
Food and Water	provides a • 34 ounces one MCW	Weather (MCW) 1 bag = 1 meal which bout 1500 calories of heated water are required to hydrate s per day as mission dictates	 3.5-5 quarts of water per day 1 stove per team; Recommend MSR Whisperlite Internationale or MSR XGK-EX to heat water for rations and/or melt snow for water 		
Shelter and Heat	Individual: • MSS, all c		quad: Ahkio Group complete IAW Appendix E Arctic 10-man tent Space Heater Arctic		
Additional Control Measures	2-3 times of water re-single from freez Sanitation		 Contact gloves must be worn when working outdoors POL gloves must be worn when working with fuel Consider 4 season, 2-4 man shelters for personnel that work away from support base Soft Shell available for lower end of temperature range 		

P P 2 2 2		erature Zone 3: -5° to -25° F Inte						
Area of Consideration	Special Requirements and Recommended Actions							
	Clothing Layer:	ECWCS Generation II	ECWCS Generation III					
	Base Layer	 Polypropylene undershirt and drawers Drawers cold weather, polyester, brown lightweight undershirt and drawers 	 Lightweight cold weather undershirt and drawers Mid-weight cold weather shirt/drawers 					
	Insulating Layer	 Shirt and overalls, cold weather, black fleece and/or Liner, cold weather, coat and trousers 	Green fleece jacket					
Available Personal Clothing and Equipment	Outer Shell	Generation II GORE-TEX® jacket and Generation II GORE-TEX® trousers	 Wind cold weather jacket (Wind Shirt) Soft shell cold weather jacket (Soft Shell) Soft shell cold weather trousers (Soft Shell) Extreme cold weather parka (Puffy Jacket) Extreme cold weather trousers (Puffy pants) 					
	Cold Weat 400g TanWhite Vap	rs ol Socks w/ synthetic liner sock her Boots (e.g. Belleville 795, Danner Ft. Lewis Military Boot) for short duration outdoor work or Barrier Boots and neck gaiter	 Contact Gloves Issued GORE-TEX® gloves with liners Trigger Finger Mittens w/ extra TF liners 					
Training	CWIC requ	uired for all personnel						
Food and Water	Meal, Cold provides a 34 ounces one MCW	Weather (MCW) 1 bag = 1 meal which bout 1500 calories of heated water are required to hydrate s per day as mission dictates	 3.5-5 quarts of water per day 1 stove per team; Recommend MSR Whisperlite Internationale or MSR XGK-EX to heat water for rations and/or melt snow for water 					
Shelter and Heat	Individual: • MSS, all c		quad: Ahkio Group complete IAW Appendix E Arctic 10-man tent Space Heater Arctic					
Additional Control Measures	and change/add: • Increase fi weather in	rol measures from Temperature Zone 2 requency of leader/medic checks for cold juries diers in static positions frequently	 Warm tents and/or vehicles available for Soldiers 4 season shelters for personnel that work away from support base are mandatory 					

Area of Consideration	Temperature Zone 4: -25° to -40° F Extreme Cold Special Requirements and Recommended Actions							
	Clothing Layer:	ECWCS Generation II	ECWCS Generation III					
	Base Layer	 Polypropylene undershirt and drawers Drawers cold weather, polyester, brown lightweight undershirt and drawers 	 Lightweight cold weather undershirt and drawers Mid-weight cold weather shirt/drawers 					
		 Shirt and overalls, cold weather, black fleece and/or Liner, cold weather, coat and trousers 	Green fleece jacket					
Available Personal Clothing and Equipment	Outer Shell	 Generation II GORE-TEX® jacket Generation II GORE-TEX® trousers 	 Wind cold weather jacket (Wind Shirt) Soft shell cold weather jacket (Soft Shell) Soft shell cold weather trousers (Soft Shell) Extreme cold weather parka (Puffy Jacket) Extreme cold weather trousers (Puffy pants) 					
	Cold Weather400g Tan MWhite Vapor	I Socks w/ synthetic liner sock er Boots (e.g. Belleville 795, Danner Ft. Lewis ilitary Boot) for short duration outdoor work Barrier Boots in the field nd neck gaiter	 Contact Gloves Issued GORE-TEX® gloves with liners Trigger Finger Mittens w/ extra TF liners 					
Training	CWIC requir	red for all personnel						
Food and Water	Meal, Cold We provides about 34 ounces of one MCW	Weather (MCW) 1 bag = 1 meal which out 1500 calories f heated water are required to hydrate per day as mission dictates	 3.5-5 quarts of water per day 1 stove per team; Recommend MSR Whisperlite Internationale or MSR XGK-EX to heat water for rations and/or melt snow for water 					
Shelter and Heat	Individual: MSS, all cor sleeping ma		quad: Ahkio Group complete IAW Appendix E Arctic 10-man tent Space Heater Arctic					
Additional Control Measures	and change/add: Risk Level is Limit outdoo	I measures from Temperature Zone 3 s high r operations and training; close scrutiny s/training by leaders is required	 Hourly leader/medic checks for cold weather injuries Cover all exposed skin Static duty not recommended 					

	Temperatu	re Zone 5: Below -40° F Hazarde	ous Cold					
Area of Consideration	Special Requirements and Recommended Actions							
	Clothing Layer:	ECWCS Generation II	ECWCS Generation III					
	Base Layer Insulating Layer	 Polypropylene undershirt and drawers Drawers cold weather, polyester, brown lightweight undershirt and drawers Shirt and overalls, cold weather, black 	 Lightweight cold weather undershirt and drawers and/or Mid-weight cold weather shirt/drawers Green fleece jacket 					
	,	fleece and/or Liner, cold weather, coat and trousers						
Available Personal Clothing and Equipment	Outer Shell	Generation II GORE-TEX® jacket and Generation II GORE-TEX® trousers	 Wind cold weather jacket (Wind Shirt) Soft shell cold weather jacket (Soft Shell) Soft shell cold weather trousers (Soft Shell) Extreme cold weather parka (Puffy Jacket) Extreme cold weather trousers (Puffy pants) 					
	 Cold Weathe 400g Tan Mil 	Socks w/ synthetic liner sock r Boots (e.g. Belleville 795, Danner Ft. Lewis itary Boot) for short duration outdoor work Barrier Boots in the field d neck gaiter	 Contact Gloves Issued GORE-TEX® gloves with liners Trigger Finger Mittens w/ extra TF liners Arctic Mittens Knife Arctic necklace (lighter and chap-stick worn around neck) 					
Training	CWIC require	ed for all personnel						
Food and Water	Meal, Cold W provides about 34 ounces of MCW	reather (MCW) 1 bag = 1 meal which ut 1500 calories heated water are required to hydrate one per day as mission dictates	 3.5-5 quarts of water per day 1 stove per team; Recommend MSR Whisperlite Internationale or MSR XGK-EX to heat water for rations and/or melt snow for water 					
Shelter and Heat	Individual: • MSS, all com	Sc	Squad: Ahkio Group complete IAW Appendix E Arctic 10-man tent Space Heater Arctic					
Additional Control Measures	Implement all control change/add: • Risk level is 6	measures from Temperature Zone 4 and extremely high	 Limit outdoor operations and training to critical life support tasks only Warm tents and/or vehicles mandatory for all personnel 					

Appendix C: Wind Chill Chart

Wind	d ed (m	ph)																
Ţ	Air Temperature (°F)																	
	40	35	30	25	20	15	10	5	0	- 5	-10	-15	-20	-25	-30	-35	-40	-45
5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95

Wind speed based on measures at 33 feet height. If wind speed measured at ground level multiply by 1.5 to obtain wind speed at 33 feet and then utilize chart.

WCT (°F) = $35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$

Where T is temperature (°F) and V is wind speed (mph)

RISK OF FROSTBITE (see times on chart below)

GREEN – LITTLE DANGER (frostbite occurs in >2 hours in dry, exposed skin)
YELLOW – INCREASED DANGER (frostbite could occur in 45 minutes or less in dry, exposed skin)
RED – GREAT DANGER (frostbite could occur in 5 minutes or less in dry, exposed skin)

Time to occurrence of frostbite in minutes or hours in the most susceptible 5% of personnel.

Wind	
Speed	(mph)

. ↓		Air Temperature (°F)												
	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45		
5	>2h	>2h	>2h	>2h	31	22	17	14	12	11	9	8		
10	>2h	>2h	>2h	28	19	15	12	10	9	7	7	6		
15	>2h	>2h	33	20	15	12	9	8	7	6	5	4		
20	>2h	>2h	23	16	12	9	8	8	6	5	4	4		
25	>2h	42	19	13	10	8	7	6	5	4	4	3		
30	>2h	28	16	12	9	7	6	5	4	4	3	3		
35	>2h	23	14	10	8	6	5	4	4	3	3	2		
40	>2h	20	13	9	7	6	5	4	3	3	2	2		
45	>2h	18	12	8	7	5	4	4	3	3	2	2		
50	>2h	16	11	8	6	5	4	3	3	2	2	2		

WET SKIN COULD SIGNIFICANTLY DECREASE THE TIME FOR FROSTBITE TO OCCUR.

Appendix D: MEDEVAC REQUEST

USARAK 9-Line Medevac Request 9-Line MEDEVAC Request Location of Pickup Site 7. Method of Marking Pickup Site A. VS-17 Panel B. Pyro C. Smoke 2. Radio Frequency / Call Sign Number of Patients by D. IR Light precedence: E. None A. Urgent Urgent Surgery 8. Patient Nationality & Status C. Priority A. US Military D. Routine B. US Civilian C. Foreign Military D. Foreign Civilian E. Convenience 4. Special Equipment A. None 9. Terrain Description B. Hoist C. Extraction Equipment D. Ventilator Power Lines Buildings Landing Surface 5. # Patients by type L. Litter A. Ambulatory 6. Number and type of wounds

ON FEDERAL TRAINING LANDS (FWA,YTA,DTA,JBER,TFTA,etc)

- 1. Contact Range Control: Primary FM 38.30
 - Secondary FM 40.50 Contingency 907-353-7535
- Relay 9-Line MEDEVAC Request on the back of this card.
 - 3. Contact Your Unit with SITREP.
- Continue to provide medical care until MEDEVAC arrives or ground EVAC completed.

OFF FEDERAL TRAINING LANDS (Parks HWY, Richardson HWY, Glenn HWY, etc)

- 1. Dial 911
- Inform 911 Operator of the location and injuries. (Refer to 9-Line)
 - 3. Contact Your Unit with SITREP.
- Continue to provide medical care until EMS or MEDEVAC arrives.



Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)		SCORE:				
		Preparatory Time				
Guidance	Optimum	Adequate	Minimal			
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	and Control)	SCORE:				
		Maneuver Element Size				
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance)	SCORE:				
Environmental	Fitness Level				
Preparation	Untrained	Proficient	Trained		
Non-acclimated	6	5	4		
Partially Acclimated	5	4	3		
Acclimated	4	3	2		

Mission and Troops (Troop to Task) SCORE:								
Tools			xperience					
Task	Level 1	vel 1 Level 2 Level 3		No mountain training/experience				
Complex	5	4	3	6				
Routine	4	3	2	5				
Simple	3	2	1	4				

Weather		SCORE:						
Temperature (degrees F		Exposure Duration						
with wind chill)	< 8 hours	8-24 hours	24-72 hours	Over 72 hours				
90 to 110	5	6	6	7				
79 to 90	2	3	4	4				
78 to 55	1	1	1	1				
55 to 33	1	1	2	3				
32 to 10	2	2	3	4				
9 to -19	3	4	4	5				
-20 to -40	5	6	7	8				
Below -40	6	7	8	9				
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9				

Terrain	SCORE:				
	Dismou	Dismounted Mobility Classification			
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	nce)	SCORE:				
		Equipment Status				
Personnel Rest	Optimum	Adequate	Minimal			
<4 hours (in 24 hours)	3	4	5			
6 hours (in 24 hours)	2	3	4			
>8 hours (in 24 hours)	1	2	3			

Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

			For use	COMPOSITE RISK MANA e of this form, see FM 5-19; t			OC.		
1. MSN/TASK				2a. DTG BEGIN	2b. D	TG END		3. DATE PREPARED (YY	(YMMDD)
4. PREPARED B	Υ			1	<u> </u>		<u> </u>		
a. LAST NAME			b. RANK		c. POSITI	ON			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONT	ROLS	9. RESIDU/ RISK LEVEL	L 10. HOV		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through								
LOW		OLS ARE IMP ODERATE	LEMENTE	D (Check one) HIGH	EX	REMELY HI	GH		
14. RISK DECIS									
a. LAST NAME		b. RANK		c. DUTY POSITION			d. SIGNAT	URE	

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ITEMS 5 THROUGH 12 CONTINUED:										
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?			

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Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:					
	Preparatory Time					
Guidance	Optimum	Adequate	Minimal			
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	I and Control) SCORE:					
	Maneuver Element Size					
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance)	SCORE:					
Environmental	Fitness Level					
Preparation	Untrained Proficient Trained					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission a	nd Troops	SCORE:		
Tools			xperience	
Task	Level 1	Level 2	Level 3	No mountain training/experience
Complex	5	4	3	6
Routine	4	3	2	5
Simple	3	2	1	4

Weather	Weather SCORE:						
Temperature (degrees F		Exposure Duration					
with wind chill)	< 8	8-24	24-72	Over 72 hours			
	hours	hours	hours	Over 72 Hours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain SCORE:						
	Dismounted Mobility Classification					
Environmental Hazards	Class 1-2	Class 3-4	Class 5			
None Present	2	4	5			
Present-avoidable	3	5	6			
Unavoidable	5	6	7			

Troops (Rest and Maintenar	SCO	RE:			
	Equipment Status				
Personnel Rest	Optimum Adequate Minimal				
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

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Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	Т	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area 1,2		3,4	5,6	7,8,9	
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk	
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40	

1. MSN/TASK		2a. DTG BEGIN	I	2b. DTG END		3.	3. DATE PREPARED (YYYYMMDD)		
4. PREPARED B	Y								
a. LAST NAME			b. RANK	С	. POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	F	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Additional space	for entries in Items 5 through	n 11 is provide	d on Page 2.	<u> </u>		l .			
13. OVERALL R	ISK LEVEL AFTER CONTR			н	EXTRE	EMELY HIGH			
	ION AUTHORITY								
a. LAST NAME		b. RANK	c. DUTY POSITIO	N			d. SIGNATUI	RE	

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ITEMS 5 THROUGH 12	ITEMS 5 THROUGH 12 CONTINUED:						
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

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Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:						
		Preparatory Time					
Guidance	Optimum	Adequate	Minimal				
FRAGO	3	4	5				
OPORD	2	3	4				
OPLAN/MOI/POI	1	2	3				

Mission (Command	and Control)		SC	ORE:	
	Maneuver Element Size				
Leadership with mountain experience	Battalion	Company	Platoon	Squad	
None	7	6	5	4	
Basic Level	6	5	4	3	
Advanced	5	4	3	2	

Troops (Soldier Endurance)	SCORE:				
Environmental	Fitness Level				
Preparation	Untrained Proficient Traine				
Non-acclimated	6	5	4		
Partially Acclimated	5	4	3		
Acclimated	4	3	2		

Mission a	nd Troops	SCORE:					
Tools	Soldier Experience						
Task	Level 1	Level 2	Level 3	No mountain training/experience			
Complex	5	4	3	6			
Routine	4	3	2	5			
Simple	3	2	1	4			

Weather			SCORE:			
Temperature (degrees F		E	Exposure Dura	ation		
with wind chill)	< 8	8-24	24-72	Over 72 hours		
	hours	hours	hours	Over 72 Hours		
90 to 110	5	6	6	7		
79 to 90	2	3	4	4		
78 to 55	1	1	1	1		
55 to 33	1	1	2	3		
32 to 10	2	2	3	4		
9 to -19	3	4	4	5		
-20 to -40	5	6	7	8		
Below -40	6	7	8	9		
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9		

Terrain		SCORE:			
	Dismounted Mobility Classification				
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	ice)	SCORE:			
	Equipment Status				
Personnel Rest	Optimum Adequate Min				
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

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Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	dividual Area 1,2		5,6	7,8,9				
Risk Level	isk Level Low risk Moderate Risk		High Risk	Extremely High Risk				
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40				

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.										
1. MSN/TASK			2a. DTG BEGIN			2b. DTG END		;	3. DATE PREPARED (YYYYMMDD)	
4. PREPARED B	Y									
a. LAST NAME			b. RANK		C.	POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTI	ROLS	R	9. ESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through									
13. OVERALL R	SK LEVEL AFTER CONTRO	OLS ARE IMP ODERATE	LEMENTE	D (Check one) HIGH		EXTRE	MELY HIGH			
14. RISK DECIS										
a. LAST NAME		b. RANK		c. DUTY POSITION				d. SIGNATU	JRE	

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ITEMS 5 THROUGH 12 CONTINUED:							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

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Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning) SCORE:						
	Preparatory Time					
Guidance	Optimum	Adequate	Minimal			
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	d and Control) SCORE:					
	Maneuver Element Size					
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance)	SCORE:					
Environmental	Fitness Level					
Preparation	Untrained Proficient Trained					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission a	nd Troops	SCORE:						
Tools		Soldier Experience						
Task	Level 1	Level 2	Level 3	No mountain training/experience				
Complex	5	4	3	6				
Routine	4	3	2	5				
Simple	3	2	1	4				

Weather SCORE:						
Temperature (degrees F		E	Exposure Duration			
with wind chill)	< 8	8-24	24-72	Over 72 hours		
	hours	hours	hours	Over 72 Hours		
90 to 110	5	6	6	7		
79 to 90	2	3	4	4		
78 to 55	1	1	1	1		
55 to 33	1	1	2	3		
32 to 10	2	2	3	4		
9 to -19	3	4	4	5		
-20 to -40	5	6	7	8		
Below -40	6	7	8	9		
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9		

Terrain SCORE:					
	Dismounted Mobility Classification				
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	ce)	SCORE:			
		Equipment Status			
Personnel Rest	Optimum	Adequate	Minimal		
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

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Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.										
1. MSN/TASK				2a. DTG BEGIN		2b. DTG	END	;	3. DATE PREPARED (YY)	(YMMDD)
4. PREPARED B	Υ				•					
a. LAST NAME			b. RANK		C.	POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTE	ROLS		9. ESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through									
13. OVERALL R	SK LEVEL AFTER CONTRO	OLS ARE IMP	LEMENTE	D (Check one) HIGH		EXTRE	MELY HIGH			
14. RISK DECIS										
a. LAST NAME		b. RANK		c. DUTY POSITION				d. SIGNATU	JRE	

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ITEMS 5 THROUGH 12 CONTINUED:							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

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Risk Assessment Matrix for Mountain Operations

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Mission (Planning)	SCORE:						
		Preparatory Time					
Guidance	Optimum	Adequate	Minimal				
FRAGO	3	4	5				
OPORD	2	3	4				
OPLAN/MOI/POI	1	2	3				

Mission (Command	and Control)		SC	ORE:		
	Maneuver Element Size					
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance)	SCORE:					
Environmental	Fitness Level					
Preparation	Untrained Proficient Trained					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission a	nd Troops	SCORE:						
Tools	Soldier Experience							
Task	Level 1 Level 2 Level 3		Level 3	No mountain training/experience				
Complex	5	4	3	6				
Routine	4	3	2	5				
Simple	3	2	1	4				

Weather		SCORE:				
Temperature (degrees F	Exposure Duration					
with wind chill)	< 8	8-24	24-72	Over 72 hours		
	hours	hours	hours	Over 72 Hours		
90 to 110	5	6	6	7		
79 to 90	2	3	4	4		
78 to 55	1	1	1	1		
55 to 33	1	1	2	3		
32 to 10	2	2	3	4		
9 to -19	3	4	4	5		
-20 to -40	5	6	7	8		
Below -40	6	7	8	9		
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9		

Terrain	SCORE:			
	Dismounted Mobility Classification			
Environmental Hazards	Class 1-2	Class 3-4	Class 5	
None Present	2	4	5	
Present-avoidable	3	5	6	
Unavoidable	5	6	7	

Troops (Rest and Maintenan	ce)	SCORE:			
		Equipment Status			
Personnel Rest	Optimum	Adequate	Minimal		
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

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Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

			For us	COMPOSITE RISK MAN e of this form, see FM 5-19;					
1. MSN/TASK				2a. DTG BEGIN	2b. DT	G END	;	3. DATE PREPARED (YY	YYMMDD)
4. PREPARED E	ЗҮ			I	L		<u> </u>		
a. LAST NAME			b. RANK		c. POSITIO	N			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONT	ROLS	9. RESIDUAI RISK LEVEL	- 10. HOW TO		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through				•	•			•
LOW		ROLS ARE IMF IODERATE	PLEMENTE	D (Check one) HIGH	EXT	REMELY HIGH			
	SION AUTHORITY								
a. LAST NAME		b. RANK		c. DUTY POSITION			d. SIGNATU	JRE	

ITEMS 5 THROUGH 12	ITEMS 5 THROUGH 12 CONTINUED:						
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

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Risk Assessment Matrix for Mountain Operations

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:				
	Preparatory Time				
Guidance	Optimum	Adequate	Minimal		
FRAGO	3	4	5		
OPORD	2	3	4		
OPLAN/MOI/POI	1	2	3		

Mission (Command	SCORE:			
		Maneuver E	Element Size	
Leadership with mountain experience	Battalion	Company	Platoon	Squad
None	7	6	5	4
Basic Level	6	5	4	3
Advanced	5	4	3	2

Troops (Soldier Endurance)	SCORE:			
Environmental		Fitness Level		
Preparation	Untrained	Proficient	Trained	
Non-acclimated	6	5	4	
Partially Acclimated	5	4	3	
Acclimated	4	3	2	

Mission a	nd Troops	SCORE:						
Tools	Soldier Experience							
Task	Level 1	evel 1 Level 2 Level 3		No mountain training/experience				
Complex	5	4	3	6				
Routine	4	3	2	5				
Simple	3	2	1	4				

Weather		SCORE:					
Temperature (degrees F	Exposure Duration						
with wind chill)	< 8	8-24	24-72	Over 72 hours			
	hours	hours	hours	Over 72 Hours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain	SCORE:				
	Dismounted Mobility Classification				
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	ice)	SCORE:			
		Equipment Status			
Personnel Rest	Optimum	Adequate	Minimal		
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

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Risk Assessment Worksheet for Mountain Operations

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	Т	otal Score:_	
Initial Risk Level:			

Interpreting the Score: Use the cumulative score to determine the initial risk level. CAVEAT: <u>If any individual area (e.g. weather)</u> receives a high or extremely high risk, the overall initial risk level is high or extremely even if the cumulative score indicates low or moderate risk level.

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

			For us	COMPOSITE RISK MANA e of this form, see FM 5-19;					
1. MSN/TASK			2a. DTG BEGIN		2b. DTC	2b. DTG END		3. DATE PREPARED (YYYYMMDD)	
4. PREPARED B	Υ				·				
a. LAST NAME			b. RANK		c. POSITIO	N			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONT	ROLS	9. RESIDUAL RISK LEVEL	10. HOW TO		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through						-		
LOW		ROLS ARE IMF IODERATE	PLEMENTE	D (Check one) HIGH	EXTR	EMELY HIGH			
	SION AUTHORITY								
a. LAST NAME		b. RANK		c. DUTY POSITION			d. SIGNATI	JRE	

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ITEMS 5 THROUGH 12 CONTINUED:								
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?	

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Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:						
		Preparatory Time					
Guidance	Optimum	Minimal					
FRAGO	3	4	5				
OPORD	2	3	4				
OPLAN/MOI/POI	1	2	3				

Mission (Command	and Control)	SCORE:				
		Maneuver E	Maneuver Element Size			
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance) SCORE:						
Environmental	Fitness Level					
Preparation	Untrained Proficient Traine					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission a	nd Troops	SCORE:		
Tools		xperience		
Task	Level 1	Level 2	Level 3	No mountain training/experience
Complex	5	4	3	6
Routine	4	3	2	5
Simple	3	2	1	4

Weather	Weather SCORE:						
Temperature (degrees F		Exposure Duration					
with wind chill)	< 8	8-24	24-72	Over 72 hours			
	hours	hours	hours	Over 72 Hours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain	SCORE:					
	Dismounted Mobility Classification					
Environmental Hazards	Class 1-2	Class 3-4	Class 5			
None Present	2	4	5			
Present-avoidable	3	5	6			
Unavoidable	5	6	7			

Troops (Rest and Maintenan	ce)	SCORE:				
		Equipment Status				
Personnel Rest	Optimum Adequate Minima					
<4 hours (in 24 hours)	3	4	5			
6 hours (in 24 hours)	2	3	4			
>8 hours (in 24 hours)	1	2	3			

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	Т	otal Score:_	
Initial Risk Level:			

Individual Area	1,2	3,4	5,6	7,8,9	
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk	
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40	

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.										
1. MSN/TASK				2a. DTG BEGIN		2b. DTG END		;	3. DATE PREPARED (YYYYMMDD)	
4. PREPARED B	Y									
a. LAST NAME			b. RANK		C.	POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTI	ROLS	R	9. ESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through									
	13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one) LOW MODERATE HIGH EXTREMELY HIGH									
14. RISK DECIS										
a. LAST NAME		b. RANK		c. DUTY POSITION				d. SIGNATU	JRE	

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ITEMS 5 THROUGH 12	ITEMS 5 THROUGH 12 CONTINUED:						
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:					
	Preparatory Time					
Guidance	Optimum Adequate Minin					
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	and Control)	SCORE:			
		Maneuver E	Element Size		
Leadership with mountain experience	Battalion	Company	Platoon	Squad	
None	7	6	5	4	
Basic Level	6	5	4	3	
Advanced	5	4	3	2	

Troops (Soldier Endurance)	SCORE:				
Environmental	Fitness Level				
Preparation	Untrained Proficient Trained				
Non-acclimated	6	5	4		
Partially Acclimated	5	4	3		
Acclimated	4	3	2		

Mission a	nd Troops	SCORE:					
Tools	Soldier Experience						
Task	Level 1	Level 2	Level 3	No mountain training/experience			
Complex	5	4	3	6			
Routine	4	3	2	5			
Simple	3	2	1	4			

Weather	Weather SCORE:						
Temperature (degrees F		Exposure Duration					
with wind chill)	< 8	8-24	24-72	Over 72 hours			
	hours	hours	hours	Over 72 nours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain		SCORE:			
	Dismounted Mobility Classification				
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	ce)	SCORE:			
		Equipment Status			
Personnel Rest	Optimum Adequate Minim				
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Individual Area	1,2	3,4	5,6	7,8,9	
Risk Level	Risk Level Low risk		High Risk	Extremely High Risk	
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40	

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.									
1. MSN/TASK			2a. DTG	BEGIN	2b. DTG	END	3	3. DATE PREPARED (YYYYMMDD)	
4. PREPARED B	Υ		T T		•		<u> </u>		
a. LAST NAME			b. RANK		c. POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS		9. RESIDUAL RISK LEVEL	10. HOW TO		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through								
LOW	13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one) LOW MODERATE HIGH EXTREMELY HIGH								
14. RISK DECIS		_				_			-
a. LAST NAME		b. RANK	c. DUTY PO	OSITION			d. SIGNATU	JRE	

ITEMS 5 THROUGH 12 CONTINUED:							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	nning) SCORE:					
		Preparatory Time				
Guidance	Optimum Adequate Minim					
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	and Control)	SCORE:				
		Maneuver E	Maneuver Element Size			
Leadership with mountain experience	Battalion	Company	Platoon	Squad		
None	7	6	5	4		
Basic Level	6	5	4	3		
Advanced	5	4	3	2		

Troops (Soldier Endurance)	urance) SCORE:					
Environmental	Fitness Level					
Preparation	Untrained Proficient Trained					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission a	nd Troops	SCORE:						
Tools		Soldier Experience						
Task	Level 1	Level 2	Level 3	No mountain training/experience				
Complex	5	4	3	6				
Routine	4	3	2	5				
Simple	3	2	1	4				

Weather	Weather SCORE:					
Temperature (degrees F		Exposure Duration				
with wind chill)	< 8	8-24	24-72	Over 72 hours		
	hours	hours	hours	Over 72 Hours		
90 to 110	5	6	6	7		
79 to 90	2	3	4	4		
78 to 55	1	1	1	1		
55 to 33	1	1	2	3		
32 to 10	2	2	3	4		
9 to -19	3	4	4	5		
-20 to -40	5	6	7	8		
Below -40	6	7	8	9		
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9		

Terrain SCORE:					
	Dismounted Mobility Classification				
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintena	nce)	SCORE:		
	Equipment Status			
Personnel Rest	Optimum	Adequate	Minimal	
<4 hours (in 24 hours)	3	4	5	
6 hours (in 24 hours)	2	3	4	
>8 hours (in 24 hours)	1	2	3	

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

COMPOSITE RISK MANAGEMENT WORKSHEET For use of this form, see FM 5-19; the proponent agency is TRADOC.										
1. MSN/TASK				2a. DTG BEGIN		2b. DTG	END	;	B. DATE PREPARED (YY)	(YMMDD)
4. PREPARED B	Υ									
a. LAST NAME			b. RANK		C.	POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTI	ROLS	R	9. ESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through									
13. OVERALL R	SK LEVEL AFTER CONTRO	OLS ARE IMP	LEMENTE	D (Check one) HIGH		EXTRE	MELY HIGH			
14. RISK DECIS										
a. LAST NAME		b. RANK		c. DUTY POSITION				d. SIGNATU	JRE	

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ITEMS 5 THROUGH 12 CONTINUED:							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?

Use the risk assessment matrix and the risk assessment worksheet to help you complete Step 1 and 2 of the CRM process: identify and assess hazards. This allows you to make your initial risk assessment.

Mission (Planning)	SCORE:					
	Preparatory Time					
Guidance	Optimum	Adequate	Minimal			
FRAGO	3	4	5			
OPORD	2	3	4			
OPLAN/MOI/POI	1	2	3			

Mission (Command	d and Control) SCORE:						
	Maneuver Element Size						
Leadership with mountain experience	Battalion	Company	Platoon	Squad			
None	7	6	5	4			
Basic Level	6	5	4	3			
Advanced	5	4	3	2			

Troops (Soldier Endurance)	SCORE:					
Environmental	Fitness Level					
Preparation	Untrained Proficient Trained					
Non-acclimated	6	5	4			
Partially Acclimated	5	4	3			
Acclimated	4	3	2			

Mission and Troops (Troop to Task) SCORE:							
	Soldier Experience						
Task	Level 1	Level 2	Level 3	No mountain training/experience			
Complex	5	4	3	6			
Routine	4	3	2	5			
Simple	3	2	1	4			

Weather		SCORE:					
Temperature (degrees F	Exposure Duration						
with wind chill)	< 8	8-24	24-72	Over 72 hours			
	hours	hours	hours	Over 72 Hours			
90 to 110	5	6	6	7			
79 to 90	2	3	4	4			
78 to 55	1	1	1	1			
55 to 33	1	1	2	3			
32 to 10	2	2	3	4			
9 to -19	3	4	4	5			
-20 to -40	5	6	7	8			
Below -40	6	7	8	9			
Hazardous weather conditions (blizzard, whiteout, ice fog, snowstorm	6	7	8	9			

Terrain	SCORE:				
	Dismou	Dismounted Mobility Classification			
Environmental Hazards	Class 1-2	Class 3-4	Class 5		
None Present	2	4	5		
Present-avoidable	3	5	6		
Unavoidable	5	6	7		

Troops (Rest and Maintenan	ce)	SCORE:			
		Equipment Status			
Personnel Rest	Optimum	Adequate	Minimal		
<4 hours (in 24 hours)	3	4	5		
6 hours (in 24 hours)	2	3	4		
>8 hours (in 24 hours)	1	2	3		

Assessment	Identify and Assess Hazards	Score	Risk
Factors			Level
Mission (Planning)			
Mission (Command and Control)			
Troops (Soldier Endurance)			
Mission and Troops (Troop to Task)			
Weather			
Terrain			
Troops (Rest and Maintenance)			
Additional Considerations			
	To	otal Score:_	
Initial Risk Level:			

Individual Area	1,2	3,4	5,6	7,8,9
Risk Level	Low risk	Moderate Risk	High Risk	Extremely High Risk
Cumulative Score	7 to 12	13 to 23	24 to 35	36 to 40

			For use	COMPOSITE RISK MANAGE of this form, see FM 5-19; the						
1. MSN/TASK				2a. DTG BEGIN		2b. DTG END		;	3. DATE PREPARED (YYYYMMDD)	
4. PREPARED B	Υ				•					
a. LAST NAME			b. RANK		C.	POSITION				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTI	ROLS		9. ESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	for entries in Items 5 through									
13. OVERALL R	SK LEVEL AFTER CONTRO	OLS ARE IMP ODERATE	LEMENTE	D (Check one) HIGH		EXTRE	MELY HIGH			
14. RISK DECIS										
a. LAST NAME		b. RANK		c. DUTY POSITION				d. SIGNATU	JRE	

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ITEMS 5 THROUGH 12 CONTINUED:									
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?		